

Process for preparing mesoporous TiO₂ powder and film photocatalyst by sol-gel method

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Abstract of **CN1342517**

A process for preparing the photocatalyst of mesoporous TiO₂ powder or film by the sol-gel method includes such steps as preparing solution from n-butyl titanate, low-carbon alcohol and diethanolamine, adding polyethylene glycol to obtain transparent precursor sol, evaporating solvent out, drying, crushing, and calcining to obtain the photocatalyst. It has high photocatalytic efficiency and activity. The mesoporous powder and film prepared by the said process has vertically open porous structure which benefits the photocatalytic reaction and high activity.

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